

60	cgaggagcga	cggccggacc	cagaccacaga	cgcaagatgg	cgacggccgc	gtgactgcct
120	cagcgtcccc	gagctcggct	ccgagtgcac	ctacggactg	actgtggggg	cagagaaggg
180	cgagatcagg	actctgtctt	tgtaaatcgt	gactgcatga	aggtcgctc	cctcgggcct
240	acttggtggg	agtgtctggt	attgttctaa	ggccaggagc	acggtgagcc	acagtctgtt
292	ggtagaattt	ggcgtcttga	tagttgagaa	a atg gcg atg	aca ctg ttg gaa	
			Met Ala Met Thr Leu Leu Glu			
			1	5		
340	gac tgg tgc cgg ggg atg gat gtg aac tcc cag aga act ctg tta gtc					
	Asp Trp Cys Arg Gly Met Asp Val Asn Ser Gln Arg Thr Leu Leu Val					
			15	20		
388	tgg ggc atc cca gtg aac tgt gat gag gct gaa atc gaa gag acc ctc					
	Trp Gly Ile Pro Val Asn Cys Asp Glu Ala Glu Ile Glu Glu Thr Leu					
			25	30		
436	cag gct gcg atg ccc cag gtc tcc tac cga atg ctt ggg aga atg ttc					
	Gln Ala Ala Met Pro Gln Val Ser Tyr Arg Met Leu Gly Arg Met Phe					
			40	45		
484	tgg agg gaa gaa aat gcg aaa gca gcc tta tta gag ctc act ggc gct					
	Trp Arg Glu Glu Asn Ala Lys Ala Ala Leu Leu Thr Gly Ala					
			60	65		
532	gta gat tac gcc gcg atc ccc agg gag atg ccg ggc aaa gga ggg gtc					
	Val Asp Tyr Ala Ala Ile Pro Arg Glu Met Pro Gly Lys Gly Gly Val					
			75	80		
580	tgg aaa gtg tta ttt aag ccc cca act tct gat gct gaa ttt tta gaa					
	Trp Lys Val Leu Phe Lys Pro Pro Thr Ser Asp Ala Glu Phe Leu Glu					
			90	95		
628	aga ttg cac ctc ttc cta gct aga gag ggg tgg acc gtg caa gat gtt					
	Arg Leu His Leu Phe Leu Ala Arg Glu Gly Trp Thr Val Gln Asp Val					
			105	110		
				115		

FIG. 1A

204070" 0982E00T

676 gcc cgt gtc ctt ggg ttt cag aac cct act ccg acc ccg ggc cca gag
 Ala Arg Val Leu Gly Phe Gln Asn pro Thr Pro Thr Pro Gly Pro Glu 135
 120

724 atg cca gca gag atg cta aac tat att ttg gat aat gtt att cag cct
 Met Pro Ala Glu Met Leu Asn Tyr Ile Leu Asp Asn Val Ile Gln Pro 150
 140

772 ctt gtt gag tcc ata tgg tac aag agg ctg aca ctt ttc tcg ggg aag
 Leu Val Glu Ser Ile Trp Tyr Lys Arg Leu Thr Leu Phe Ser Gly Lys 165
 155

820 gga cat ccc agg gcc tgg aga gga aac ttt gat ccc tgg ctg gag cac
 Gly His Pro Arg Ala Trp Arg Gly Asn phe Asp Pro Trp Leu Glu His 180
 170

868 act aat gag gtc cta gag gag tgg cag gtg tcc gat gta gaa aag agg
 Thr Asn Glu Val Leu Glu Glu Trp Gln Val Ser Asp Val Glu Lys Arg 195
 185

916 cgg cgg ttg atg gag agt ctt aga ggc ccc gcc gct gat gtt att cgc
 Arg Arg Leu Met Glu Ser Leu Arg Gly Pro Ala Ala Asp Val Ile Arg 215
 200

964 atc ctt aag tcc aac aac ccc gcg ata acc act gcc gaa tgc ctg aag
 Ile Leu Lys Ser Asn Asn Pro Ala Ile Thr Thr Ala Glu Cys Leu Lys 230
 220

1012 gcg ctt gag cag gtg ttt ggg agc gtt gag agc tct agg gat gcc cag
 Ala Leu Glu Gln Val Phe Gly Ser Val Glu Ser Ser Arg Asp Ala Gln 245
 235

FIG. 1B

atc aaa ttt ctg aac act tat cag aac ccg gga gaa aaa ttg tct gct ile Lys Phe Leu Asn Thr Tyr Gln Asn Pro Gly Glu Lys Leu Ser Ala 250 255 260	1060
tat gtc att cgt ctg gag cct ctg cta cag aag gtg gta gag aag ggg Tyr Val Ile Arg Leu Glu Pro Leu Leu Gln Lys Val Val Glu Lys Gly 265 270 275	1108
gcc att gat aaa gat aat gtg aac cag gcc cgc cta gag cag gtc att Ala Ile Asp Lys Asp Asn Val Asn Gln Ala Arg Leu Glu Gln Val Ile 280 285 290 295	1156
gcc ggg gcc aac cac agc ggg gcc atc cga agg cag ctg tgg ctt acc Ala Gly Ala Asn His Ser Gly Ala Ile Arg Arg Gln Leu Trp Leu Thr 300 305 310	1204
ggg gct ggg gaa ggg cca ggc ccc aaa cct ctt tca gtt gct ggt gca Gly Ala Gly Glu Gly Pro Gly Pro Lys Pro Leu Ser Val Ala Gly Ala 315 320 325	1252
gat ccg tgaggaggaa gccaggagg gagaggagg aggtgaggc cacccttctg Asp Pro	1308
cagttaggcc tggaaggcca cttctgagt ccaggaaagg cagctttagt gcagacctag atcacagcta cttttcttgt cctgtgggg tcttacagat gtgtctctga gtagtaaagg cttagccttg ttctgttttg ttgttttttg gaggggaagg ttagtcaggc ctgagtattc atgtaacatt ctaaaattgt gccagcagc accgtgaacg actgcaatgc aagcgggtct tgctggctaa aatgccccagg taaagggttg gttggacaca gcgcttagtg cagcgtgtca tcatggacat cataatcagt tgtgaaaaac acggaacct atgacacctc ttattccaca ctgaatgtga aattgcatgt tcagatgttt nactacgagg cctgggtcac aggaagtgtt cagtaaaagt atgcactgtt agattactga taacgcggat agatttttgt ttaccataaa ttgtccaga tttatatata tggaaggagg tgtgcattta ttagtattta ctcaacttta caatgcaaac atcttatttc tcattcttaa acatgtcgac cagtttaatt gaaaagtatt ctgagactgc aaaatggggt gttaaaaat actgcagttta cggagctgtg taaaccagtt tctcattgca taagatacag atgtaaaattg catggagagg ttgatatgca cctgtacagt aattcactcc cccatttcac ttctttgtca gagaatagtt cttgttcata ctgagtgttc taaatttgaa gttatatata caaattaaaa tattttaaaa aaaaaaaaaa g	1368 1428 1488 1548 1608 1668 1728 1788 1848 1908 1968 2028 2088 2139

FIG. 1C

204070" 0982E00T

```

ccc ctg gca ctg tta gag gac tgg tgc agg ata atg agt gtg gat gag      48
Pro Leu Ala Leu Leu Glu Asp Trp Cys Arg Ile Met Ser Val Asp Glu
1      5      10      15
cag aag tca ctg atg gtt acg ggg ata ccg gcg gac ttt gag gag gct      96
Gln Lys Ser Leu Met Val Thr Gly Ile Pro Ala Asp Phe Glu Glu Ala
20      25      30
gag att cag gag gtc ctt cag gag act tta aag tct ctg ggc agg tat      144
Glu Ile Gln Glu Val Leu Leu Gln Glu Thr Leu Lys Ser Leu Gly Arg Tyr
35      40      45
aga ctg ctt ggc aag ata ttc cgg aag cag gag aat gcc aat gct gtc      192
Arg Leu Leu Gly Lys Ile Phe Arg Lys Lys Gln Glu Asn Ala Asn Ala Val
50      55      60
tta cta gag ctt ctg gaa gat act gat gtc tcg gcc att ccc agt gag      240
Leu Leu Glu Leu Leu Glu Asp Thr Asp Val Ser Ala Ile Pro Ser Glu
65      70      75      80
gtc cag gga aag ggg ggt gtc tgg aaa gtg atc ttt aag acc cct aat      288
Val Gln Gly Lys Gly Gly Val Trp Lys Val Ile Phe Lys Thr Pro Asn
85      90      95

```

FIG. 2A

336
 cag gac act gag ttt ctt gaa aga ttg aac ctg ttt cta gaa aaa gag
 Gln Asp Thr Glu Phe Leu Glu Arg Leu Asn Leu Phe Leu Glu Lys Glu
 100 105 110

384
 ggg cag acg gtc tcg ggt atg ttt cga gcc ctg ggg cag gag gcg ttg
 Gly Gln Thr Val Ser Gly Met Phe Arg Ala Leu Gly Gln Glu Ala Leu
 115 120 125

432
 tct cca gcc aca gtg ccc tgc atc tca cca gaa tta ctg gcc cat ttg
 Ser Pro Ala Thr Val Pro Cys Ile Ser pro Glu Leu Ala His Leu
 130 135 140

480
 ttg gga cag gca atg gca cat gcg cct cag ccc ctg cta ccc atg aga
 Leu Gly Gln Ala Met Ala His Ala Pro Gln Pro Leu Leu Pro Met Arg
 145 150 155 160

528
 tac cgg aaa ctg cga gta ttc tca ggg agt gct gtc cca gcc cca gag
 Tyr Arg Lys Leu Arg Val Phe Ser Gly Ser Ala Val pro Ala Pro Glu
 165 170 175

576
 gaa gag tcc ttt gag gtc tgg ttg gaa cag gcc acg gag ata gtc aaa
 Glu Glu Ser Phe Glu Val Trp Leu Glu Ala Thr Glu Ile Val Lys
 180 185 190

615
 gag tgg cct tgaacacaaac caaaaaaaaaa aaaaaaaaaag
 Glu Trp Pro
 195

FIG. 2B

2044070' 0387E00T

Ma2	CCCCCTGGCACTGTTAGAGGACTGGTGCAGGATAATGAGTGTGGATGAGCAGAAGTCACTGATGGTTACGG....GGATACCGGCG	81
Ma1	<gCgaTGaCACTGTTgAaAGACTGGTGCcGGggATGgaTGTGaActccCAGAGaaCtCTGtTaGTcttggG....GcATcCCaGtG	748
mouse	<CtgCgtCgtTctTct.GccCTcG.GCgGG...AcgGgcGcGGg.GAGCccggGTCTcCTccTaaaccCcGcaaaggGctCC...G	80
Ma2	GACTTTGAGGAGGCTGAGATTC.AGGAGGTCCTTCAGGAGACTTTAAA.....GTCTCTG.GGCAGGTATAGACTGCTTGGCA...	157
Ma1	aACTgTGATGAGGCTGAaATcg.AaGAGacCCCTcCAGG...CTgCGat....GcCcCaG.GtCtccTAccGAAATGCTTGGGA...	821
mouse	GACcTctgCgtGttaaAGAGaCgAGcAcGcaCaTCA.....CTgTAAGcggcGgCgCgGcGGccTgGtCgaaTTaGaAttt	160
Ma2	AGATATTCcG.GAAGCAGGAGAAATGCCAATGCTGTCTTACTAGAGCTTCTGGAAGATACTGATGTCTCGGCCATTCcCAGTGAGG	241
Ma1	gaATgTTCTg.GAgGgAaGAaAATGCgAAaGCaGcCTTatTAGAGCTcactGgcGtgaGATtaCgCcGCgATcCCcCAGgGAGa	905
mouse	AaATAcTcTgaGcAcCAcATGAcAcTGagAcTtCtagaagACTgGtGCagagGGATGgataTGAatcCTCGGaaAgcaCtAtTG.Gt	244
Ma2	TCCAGGGAAGGGGGTGTCTGGAAAGTGATCTTTAAGACCCCTAATCAGGACACTGAGTTTCTTTGAAAGATTGAACCTGTTTC.	325
Ma1	TgCcGGGcAAaGGaGGgGTCTGGAAAGTgTtTaTTAAAGCCCCaAcTtctGAtgCTGAATTTtTaGAAAGATTGcACCTcTtCc.	989
mouse	TgCcGGcAtccctccGac.CTGcggAGTGgc.....AGAC....AtagAGGaggC.....CcTGCagGcTgGc.CtTGcTcCc	311

FIG. 3A

204470' 0984600T

Ma2	.TAGAAAAAGAGGGGCAGACGGTCTCGG.GTATGTTTCGAGCCCTGGGGCAGGAGGCGTGTCTCCAGCCACAGTGCCCTGC.AT	407
Ma1	.TAGctAGAGAGGGGtgGACcGTgcaaG.aTgTtgccCGtGtCCTtGGGgtttcAGaaacctcCTCCgaCCcC.GgGCCCaGagAT	1071
mouse	tTAGgggAAcA....CAGAcTgctTgGgAGgATGTT.....CAGGAGG.GaTGagaaCAagaAtgtaGCCCTG....	374
Ma2	CTCACCAGAAATTACTGGCCCATTTGTTGGGACAGGCAATGGCACATGCGCCTCAGCCCCCTGCTAC...CCATG.AGATACCGGAA	488
Ma1	gcCAGCAGAGaTgCTaaaCtATaTtTTGGGataAtGttAT.....TCAGCctCTtgTtgagtCCATa.tGgTACaaGAg	1143
mouseAtTGGgCttacaGTaGaGACTGGCAGTG.....CCTGgTcC...CCAAGgAaATACCTGcA	427
Ma2	ACTGCGAGTATTTCTCAGGGA.GTGCTGTCCCAGCCCC...AGAGGAAGAGTC.CTTTGAGGTCCTGGTTGGAAACAGGCCACGGAGA	568
Ma1	gCTGacAcTtTTCTCgGGGAaGgGacaTCCAGggCctggAGAGGAAa.....CttTGATccCTGGcTGGAGCacaCtAatGAGg	1223
mouse	AaaG.GAGgtgTCTg.GaGA.GTGaTcTttaAGCCtCctgAtActgAtAGTgaCTTTTtGtgCaGaTTaaAtgAG.....	499
Ma2	TAGTCAAAGAGTGGCCTTGAACACAAACCAAAAAAANAANAANAAG	615
Ma1	TccTagAGAGTGGC.....AggtgtCCgA>	1248
mouse	TttTtAAAGgGgG....aGggCATgACgAtggtgAAAtt>	534

FIG. 3B

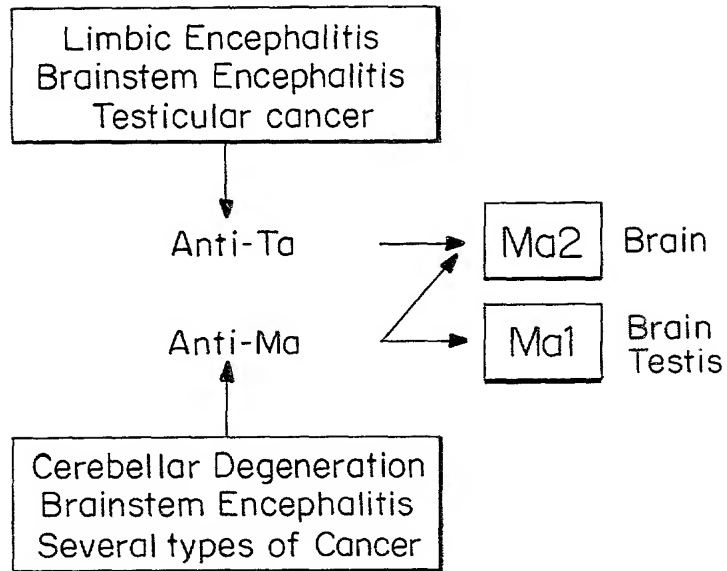


FIG. 4

204070" 09826071

2044070-0384007

g gac ctg atg cac ata gtg cag gca gac aac ccg tcc atc agt gta gaa	49
Asp Leu Met His Ile Val Gln Ala Asp Asn Pro Ser Ile Ser Val Glu	15
1	5
gag tgt ttg gag gcc ttt aag caa gtg ttt ggg agc cta gag agc cgc	97
Glu Cys Leu Glu Ala Phe Lys Gln Val Phe Gly Ser Leu Glu Ser Arg	30
20	25
agg aca gcc cag gtg agg tat ctg aag ccc tat cag gag gaa gga gag	145
Arg Thr Ala Gln Val Arg Tyr Leu Lys Pro Tyr Gln Glu Gly Glu	45
35	40
aag gtc tca gcc tat gtg tta cgg cta gaa acc ctg ctg cgg aga gcg	193
Lys Val Ser Ala Tyr Val Leu Arg Leu Glu Thr Leu Leu Arg Arg Ala	60
50	55
gtg gag aaa cgc gcc atc cct cgg cgt att gcg gac cag gtc cgc ctg	241
Val Glu Lys Arg Ala Ile Pro Arg Arg Ile Ala Asp Gln Val Arg Leu	80
65	70
	75

FIG. 5A

204070" 0982E00F

gag cag gtc atg gct ggg gcc act ctt aac cag atg ctg tgg tgc cgg	289
Glu Gln Val Met Ala Gly Ala Thr Leu Asn Gln Met Leu Trp Cys Arg	
85 90 95	
ctt agg gag ctg aag gat cag ggc ccg ccc agc ttc ctt gag cta	337
Leu Arg Glu Leu Lys Asp Gln Gly Pro Pro Ser Phe Leu Glu Leu	
100 105 110	
atg aag gta ata cgg gaa gag gag gaa gag gcc tcc ttt gag aat	385
Met Lys Val Ile Arg Glu Glu Glu Glu Ala Ser Phe Glu Asn	
115 120 125	
gag agt atc gaa gag cca gag gaa cga gat ggc tat ggc cgc tgg aat	433
Glu Ser Ile Glu Glu Pro Glu Glu Arg Asp Gly Tyr Gly Arg Trp Asn	
130 135 140	
cat gag gga gac gac tgaaaaccac ctgggggag gaccacacagc cagtgggcta	488
His Glu Gly Asp Asp	
145	
agacctttaa aaaatttttt tctttaatgt atgggactga aatcaaacca tgaaagccaa	548
ttattgacct tcttctcttc cttcttcttc tcccttcttc tctctctctt	608
tttttttttt tttttaaacc ctgttcttgg gtgggtgagg gtataatact aagttgagat	668
gatatacttt acgggggaag gcgctttgtg aagtaggcct tatttctctt gtcctttcgt	728
acagggaggga atttgaagta gatagaaacc gacctggatt actccggtct gaactcagat	788
cacgtaggac ttttaactgtt gaacaaacga acctttaata gcgagg	833

FIG. 5B

204070" 0902E001

g gtc cag gga aag ggg ggt gtc tgg aag gtg atc ttt aag acc cct aat	49
Val Gln Gly Lys Gly Gly Val Trp Lys Val Ile Phe Lys Thr Pro Asn	15
1	
cag gac act gag ttt ctt gaa aga ttg aac ctg ttt cta gaa aaa gag	97
Gln Asp Thr Glu Phe Leu Glu Arg Leu Asn Leu Phe Leu Glu Lys Glu	30
20	
ggg cag acg gtc tcg ggt atg ttt cga gcc ctg ggg cag gag ggc gtg	145
Gly Gln Thr Val Ser Gly Met Phe Arg Ala Leu Gly Gln Glu Gly Val	45
35	
tct cca gcc aca gtg ccc tgc atc tca cca gaa tta ctg gcc cat ttg	193
Ser Pro Ala Thr Val Pro Cys Ile Ser Pro Glu Leu Leu Ala His Leu	60
50	
ttg gga cag gca atg gca cat gcg cct cag ccc ctg cta ccc atg aga	241
Leu Gly Gln Ala Met Ala His Ala Pro Gln Pro Leu Leu Pro Met Arg	80
65	
tac cgg aaa ctg cga gta ttc tca ggg agt gct gtc cca gcc cca gag	289
Tyr Arg Lys Leu Arg Val Phe Ser Gly Ser Ala Val Pro Ala Pro Glu	95
85	

FIG. 6A

2044070 09846007

gaa gag tcc ttt gag gtc tgg ttg gaa cag gcc acg gag ata gtc aaa Glu Glu Ser Phe Glu Val Trp Leu Glu Ala Thr Glu Ile Val Lys 100 105 110	337
gag tgg cca gta aca gag gca gaa aag aaa agg tgg ctg gcg gaa agc Glu Trp Pro Val Thr Glu Ala Glu Lys Lys Arg Trp Leu Ala Glu Ser 115 120 125	385
ctg cgg ggc cct gcc ctg gac ctc atg cac ata gtg cag gca gac aac Leu Arg Gly Pro Ala Leu Asp Leu Met His Ile Val Gln Ala Asp Asn 130 135 140 145	433
ccg tcc atc agt gta gaa gag tgt ttg gag gcc ttt aag caa gtg ttt Pro Ser Ile Ser Val Glu Glu Cys Leu Glu Ala Phe Lys Gln Val Phe 150 155 160 165	481
ggg agc cta gag agc cgc agg aca gcc cag gtg agg tat ctg aag acc Gly Ser Leu Glu Ser Arg Arg Thr Ala Gln Val Arg Tyr Leu Lys Thr 165 170 175	529
tat cag gag gaa gga gag aag gtc tca gcc tat gtg tta cgg cta gaa Tyr Gln Glu Glu Gly Glu Lys Val Ser Ala Tyr Val Leu Arg Leu Glu 180 185 190	577

FIG. 6B

204010" 0984600T

acc ctg ctc cgg aaa gcg gtg gag aaa cgc gcc atc cct cgg cgt att Thr Leu Leu Arg Lys Ala Val Glu Lys Arg Ala Ile Pro Arg Arg Ile 195 200 205	625
gcg gac cag gtc cgc ctg gag cag gtc atg gct ggg gcc act ctt aac Ala Asp Gln Val Arg Leu Glu Gln Val Met Ala Gly Ala Thr Leu Asn 210 215 220	673
cag atg ctg tgg tgc cgg ctt agg gag ctg aag gat cag ggc ccg ccc Gln Met Leu Trp Cys Arg Leu Arg Glu Leu Lys Asp Gln Gly Pro Pro 225 230 235	721
ccc agc ttc ctt gag cta atg aag gta ata cgg gaa gaa gag gag gaa Pro Ser Phe Leu Leu Met Lys Val Ile Arg Glu Glu Glu Glu Glu 240 245 250 255	769
gag gcc tcc ttt gag aat gag agt atc gaa gag cca gag gaa cga gat Glu Ala Ser Phe Glu Asn Glu Ser Ile Glu Glu Pro Glu Glu Arg Asp 260 265 270	817
ggc tat ggc cgc tgg aat cat gag gga gac gac tgaaaaccac ctgggggcag Gly Tyr Gly Arg Trp Asn His Glu Glu Gly Asp Asp 275 280	870
gaccacagc cagtgggcta agacctttaa aaaatttttt tctttaatgt atgggactga aatcaaaacca tgaaagccaa ttattgacct tcttctcttc ctctcttctc tctcttctc cctctctctc tctctctctc ctctctctc tctctctctc tctctctctc ctctctctc ttttctctt tctctctctt ctttatttct tgggtctcac tctcatcacc caggctagag tgcagtggca caaaaatctc ggctcactgc agccttgact tcccaggctc aggtcagggt gatcctcaca ccttagcctc ccaagtacct gggactacag gcacgcacca ccattgcctag ctattctttt gtatttttgg tagagacagg gttttgctgt gttgctcagg ctggtctgga acccttaggc tcaaatgatg tgcccaactc ggccctcccaa agtgcctggga ttacaggcat gaaccgcat gcctggcct tgatttttct ttttaagaaa aaaatatcta ggagtttctt agaccctatg tagattatta atgaacaaaa gattaaactc caaatattaa atagtaagcc tgaaggaatc tgaacaactt gtacttccaa ttttctttaa ataattccaa atagaccaga attggcccat accatagaag aaagaattgg cagtcaaaaa aaaa	930 990 1050 1110 1170 1230 1290 1350 1410 1470 1530 1574

FIG. 6C

54 cattaagtatc cgcagagatt cgaggac atg ccg ttg acc ttg tta cag gac tgg
 Met Pro Leu Thr Leu Leu Gln Asp Trp
 1 5

102 tgt cgg ggg gaa cac ctg aac acc cgg agg tgc atg ctc atc ctg ggg
 Cys Arg Gly Glu His Leu Asn Thr Arg Arg Cys Met Leu Ile Leu Gly
 10 15 20 25

150 atc ccc gag gac tgt ggc gag gat gag ttt gag gag aca ctc cag gag
 Ile Pro Glu Asp Cys Gly Glu Asp Glu Phe Phe Glu Thr Leu Gln Glu
 30 35 40

198 gct tgc agg cac ctg ggc aga tac agg gtg att ggc agg atg ttt agg
 Ala Cys Arg His Leu Gly Arg Tyr Arg Val Ile Gly Arg Met Phe Arg
 45 50 55

246 agg gag gag aac gcc cag gcg att cta ctg gag ctg gca caa gat atc
 Arg Glu Glu Asn Ala Gln Ala Ile Leu Leu Glu Leu Ala Gln Asp Ile
 60 65 70

FIG. 7A

gac tat gct ttg ctc cca agg gaa ata cca gga aag ggg ggg ccc tgg Asp Tyr Ala Leu Leu Pro Arg Glu Ile Pro Gly Lys Gly Gly Pro Trp 75 80 85	294
gaa gtg att gta aaa ccc cgt aac tca gat ggg gaa ttt ctc aac aga Glu Val Ile Val Lys Pro Arg Asn Ser Asp Gly Glu Phe Leu Asn Arg 90 95 100 105	342
ctg aac cgc ttc tta gag gag gag cgg acc gtg tca gat atg aac Leu Asn Arg Phe Leu Glu Glu Arg Arg Thr Val Ser Asp Met Asn 110 115 120	390
cga gtc ctc ggg tcg gac acc aat tgt tcg gct cca aga gtg act ata Arg Val Leu Gly Ser Asp Thr Asn Cys Ser Ala Pro Arg Val Thr Ile 125 130 135	438
tca cca gag ttc tgg acc tgg gcc cag act ctg ggg gca gca gtg cag Ser Pro Glu Phe Trp Thr Trp Ala Gln Thr Leu Gly Ala Val Gln 140 145 150	486
cct ctg cta gaa caa atg ttg tac cga gaa cta aga gtg ttt tct ggg Pro Leu Leu Glu Gln Met Leu Tyr Arg Glu Leu Arg Val Phe Ser Gly 155 160 165	534
aac acc ata tcc atc cca ggt gca ctg gcc ttt gat gcc tgg ctt gag Asn Thr Ile Ser Ile Pro Gly Ala Leu Ala Phe Asp Ala Trp Leu Glu 170 175 180 185	582

FIG. 7B

cac acc act gag atg cta cag atg tgg cag gtg ccc gag ggg gaa aag His Thr Thr Glu Met Leu Gln Met Trp Gln Val Pro Glu Gly Glu Lys 190 195 200	630
agg cgg agg ctg atg gaa tgc tta cgg ggc cct gct ctc cag gtg gtc Arg Arg Arg Leu Met Glu Cys Leu Arg Gly Pro Ala Leu Gln Val Val 205 210 215	678
agt ggg ctc cgg gcc agc aat gct tcc ata act gtg gag gag tgc ctg Ser Gly Leu Arg Ala Ser Asn Ala Ser Ile Thr Val Glu Glu Cys Leu 220 225 230	726
gct gcc ttg cag cag gtg ttc gga cct gtg gag agc cat aaa att gcc Ala Ala Leu Gln Gln Val Phe Gly Pro Val Glu Ser His Lys Ile Ala 235 240 245	774
cag gtg aag ttg tgt aaa gcc tat cag gag gca gga gag aaa gta tct Gln Val Lys Leu Cys Lys Ala Tyr Gln Glu Ala Gly Glu Lys Val Ser 250 255 260 265	822
agc ttt gtg tta cgt ttg gaa ccc ctg ctc caa aga gct gta gaa aac Ser Phe Val Leu Arg Leu Glu Pro Leu Leu Gln Arg Ala Val Glu Asn 270 275 280	870
aat gtg gta tca cgt aga aac gtg aat cag act cgc ctg aaa cga gtc Asn Val Val Ser Arg Arg Asn Val Asn Gln Thr Arg Leu Lys Arg Val 285 290 295	918
tta agt ggg gcc acc ctt cct gac aaa ctc cga gat aag ctt aag ctg	966

FIG. 7C

Leu Ser Gly Ala Thr Leu Pro Asp Lys Leu Arg Asp Lys Leu Lys Leu
 300 305 310
 atg aaa cag cga agg aag cct cct ggt ttc ctg gcc ctg gtg aag ctc
 Met Lys Gln Arg Arg Lys Pro Pro Gly Phe Leu Ala Leu Val Lys Leu
 315 320 325
 ctg cgt gag gag gaa tgg gag gcc act tta ggt cca gat agg gag
 Leu Arg Glu Glu Glu Trp Glu Ala Thr Leu Gly Pro Asp Arg Glu
 330 335 340 345
 agt ctg gag ggg ctg gaa gta gcc cca agg cca cct gcc agg atc act
 Ser Leu Glu Gly Leu Glu Val Ala Pro Arg Pro Pro Ala Arg Ile Thr
 350 355 360
 ggg gtt ggg gca gta cct ctc cct gcc tct ggc aac agt ttt gat gcg
 Gly Val Gly Ala Val Pro Leu Pro Ala Ser Gly Asn Ser Phe Asp Ala
 365 370 375
 agg cct tcc cag ggc tac cgg cgc cgg agg ggc aga ggc caa cac cga
 Arg Pro Ser Gln Gly Tyr Arg Arg Arg Arg Gly Arg Gly Gln His Arg
 380 385 390
 agg ggt ggt gtg gca agg gct ggc tct cga ggc tca aga aaa cgg aaa
 Arg Gly Gly Val Ala Arg Ala Gly Ser Arg Gly Ser Arg Lys Arg Lys
 395 400 405
 cgc cac aca ttc tgc tat agc tgt ggg gaa gac ggc cac atc agg gta
 Arg His Thr Phe Cys Tyr Ser Cys Gly Glu Asp Gly His Ile Arg Val
 410 415 420 425 430

FIG. 7D

1350	cag tgc atc aac ccc tcc aac ctg ctc ttg gta aag cag aag aaa cag	
	Gln Cys Ile Asn Pro Ser Asn Leu Leu Val Lys Gln Lys Lys Gln	
		440
		435
		430
1398	gct gca gtt gag tgc gga aac ggg aac tgg gct tgg gac aag agc cat	
	Ala Ala Val Glu Ser Gly Asn Gly Asn Trp Ala Trp Asp Lys Ser His	
		455
		450
1446	ccc aag tcc aag gcc aag taggtctggg agaacagggc aacatttctt	
	Pro Lys Ser Lys Ala Lys	
		460
1506	accacagccc aaggagacaa aagagatatatt gggaggaggg gaaagagaag cccagacaaa	
1566	cagcagatga gttgagtggg gcagaggggac agggcagcca gaccaaggcc aagcmttctc	
1626	acccttnggc cagttggaag ggacttttcag caaccaagac cacttgcca caggctcagt	
1686	gggggtcagg tccaggtccc cgaagaggtg ctggagagga aagcaggggag ccaactgcac	
1746	cagcacatgg ggtgcctggg cctcagatgg ggaccccaaa gaagcagaag ctgaagaaag	
1806	tacggctggg ggttctgtcc tgctcatcca accacccta aatacccacc ctgtggactt	
1866	tgagctgaac atgcccactg gccccaggc cacatgggac ctggaggagc ctacctgggg	
1926	cctgcccctg ccagcaggtg ccagggctgg tgaggaagag ctgggggggca gaggtaaagc	
1986	cctgcagggg agggcacagg gtccatccc tcttcaggat catctacact gcactagggg	
2046	agccccagga aggcagcacc ctggaggccc tgtgccagtg aggcacaggag accctaaggc	
2106	cccgggagcc cagtgccagc cagaggttgt gcaggcaagg agaccaaga ttgatgagaa	
2166	gacccccagc aggggtactg ggtacccggc agggcagtcg cctcacagtt gacttggacc	
2226	aggggtggctg tgaaggaag tctttgttgc aaaggaggag gaaaaggag gacttggtag	
2248	ggttttgttt cttctgcttg gg	

FIG. 7E